Fig. 1

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Fig. 2 b

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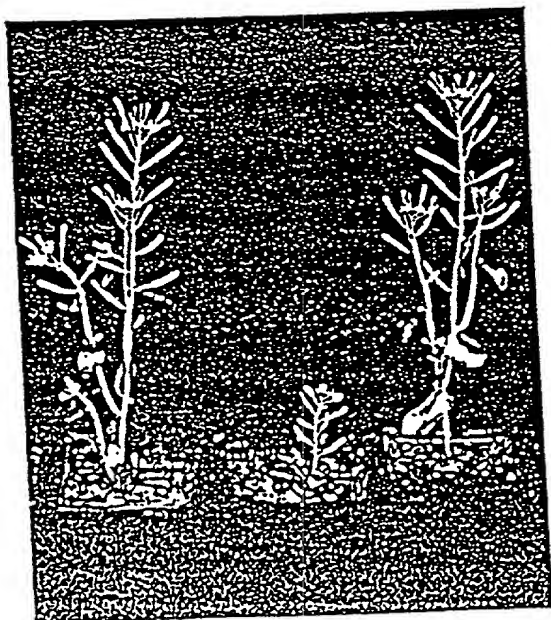
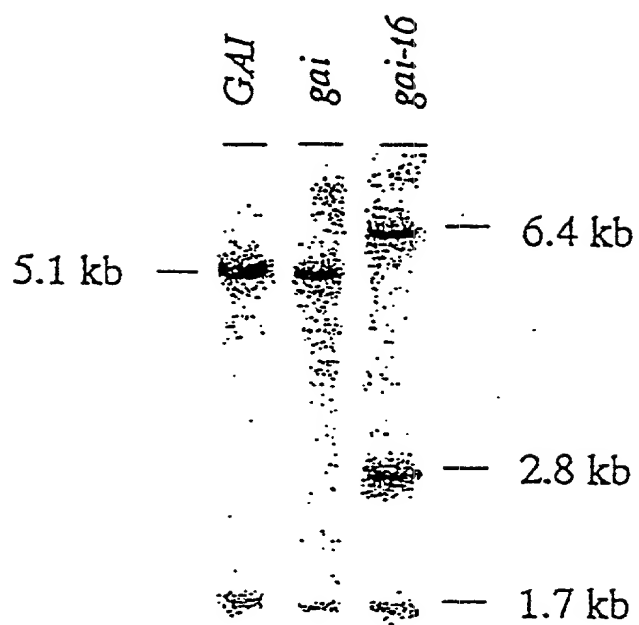
Fig. 2 a000154-0730
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Fig. 2c

TAATAATCAT TTTTCTTCTT ATAACCTTCC TCTCTATTTT TACAATTTAT TTTGTTATTA 60
 GAAGTGGTAG TGGAGTGAAA AAACAAATCC TAAGCAGTCC TAACCGATCC CCGAAGCTAA 120
 AGATTCTTCA CCTTCCCAAA TAAAGCAAAA CCTAGATCCG ACATTGAAGG AAAAACCTTT 180
 TAGATCCATC TCTGAAAAAA AACCAACCAT GAAGAGAGAT CATCATCATC ATCATCAAGA 240
 TAAGAAGACT ATGATGATGA ATGAAGAAGA CGACGGTAAC GGCATGGATG AGCTTCTAGC 300
 TGTTCTTGGT TACAAGGTTA GGTCATCGGA AATGGCTGAT GTTGCTCAGA AACTCGAGCA 360
 GCTTGAAGTT ATGATGTCTA ATGTTCAAGA AGACGATCTT TCTCAACTCG CTAAGTACAG 420
 TGTTCACTAT AATCCGGCGG AGCTTTACAC GTGGCTTGAT TCTATGCTCA CCGACCTTAA 480
 TCCTCCGTCG TCTAACGCCG AGTACGATCT TAAAGCTATT CCCGGTGACG CGATTCTCAA 540
 TCAGTTCGCT ATCGATTCCG CTTCTTCGTC TAACCAAGGC GCGCGAGGAG ATACGTATAC 600
 TACAAACAAG CGGTTGAAAT GCTCAAACGG CGTCGTGGAA ACCACCACAG CGACGGCTGA 660
 GTCAACTCGG CATGTTGTCC TGGTTGACTC GCAGGAGAAC GGTGTGCGTC TCGTTACGCG 720
 GCTTTTGGCT TGGCTGAAG CTGTTAGAA GGAGAATCTG ACTGTGGCGG AAGCTCTGGT 780
 GAAGCAAATC GGATTCTTAG CTGTTTCTCA AATCGGAGCT ATGAGAAAAG TCGCTACTTA 840
 CTTGCGCGAA GCTCTCGCGC GCGCGATTTA CCGTCTCTCT CCGTCGCAGA GTCCAATCGA 900
 CCACTCTCTC TCCGATACTC TTCAGATGCA CTTCTACGAG ACTTGTCTCT ATCTCAAGTT 960
 CGCTCACTTC ACGGCGAATC AAGCGATTCT CGAAGCTTTT CAAGGGAAGA AAAGAGTTCA 1020
 TGTCAATTGAT TTCTCTATGA GTCAAGGTCT TCAATGGCCG GCGCTTATGC AGGCTCTTGC 1080
 GCTTCGACCT GGTGGTCCCT CTGTTTTCCG GTTAACCGGA ATTGGTCCAC CCGCACCAGG 1140
 TAATTTTCAT TATCTTCATG AAGTTGGGTG TAAGCTGGCT CATTTAGCTG AGGCGATTCA 1200
 CGTTGAGTTT GAGTACAGAG GATTTGTGGC TAACACTTTA GCTGATCTTG ATGCTTCGAT 1260
 GCTTGAGCTT AGACCAAGTG AGATTGAATC TGTTGCGGTT AACTCTGTTT TCGAGCTTCA 1320
 CAAGCTCTTG GGACGACCTG GTGCGATCGA TAAGGTTCTT GGTGTGGTGA ATCAGATTAA 1380
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 CAATTAGATG GTGGCTCAAT GAATTGATCT GTTGAACCGG TTATGATGAT AGATTCCGA 1860
 CCGAAGCCAA ACTAAATCCT ACTGTTTTC CTTTGTGAC TTGTTAAGAT CTTATCTTTC 1920
 ATTATATTAG GTAATTGAAA AATTTCTAAA TTAATCACAC TGGC 1964

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MetLysArgAspHisHisHisHisHisGlnAspLysLysThrMetMetMetAsnGluGlu 20
 AspAspGlyAsnGlyMetAspGluLeuLeuAlaValLeuGlyTyrLysValArgSerSer 40
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 GluAspAspLeuSerGlnLeuAlaThrGluThrValHisTyrAsnProAlaGluLeuTyr 80
 ThrTrpLeuAspSerMetLeuThrAspLeuAsnProProSerSerAsnAlaGluTyrAsp 100
 LeuLysAlaIleProGlyAspAlaIleLeuAsnGlnPheAlaIleAspSerAlaSerSer 120
 SerAsnGlnGlyGlyGlyGlyAspThrTyrThrThrAsnLysArgLeuLysCysSerAsn 140
 GlyValValGluThrThrThrAlaThrAlaGluSerThrArgHisValValLeuValAsp 160
 SerGlnGluAsnGlyValArgLeuValHisAlaLeuLeuAlaCysAlaGluAlaValGln 180
 LysGluAsnLeuThrValAlaGluAlaLeuValLysGlnIleGlyPheLeuAlaValSer 200
 GlnIleGlyAlaMetArgLysValAlaThrTyrPheAlaGluAlaLeuAlaArgArgIle 220
 TyrArgLeuSerProSerGlnSerProIleAspHisSerLeuSerAspThrLeuGlnMet 240
 HisPheTyrGluThrCysProTyrLeuLysPheAlaHisPheThrAlaAsnGlnAlaIle 260
 LeuGluAlaPheGlnGlyLysLysArgValHisValIleAspPheSerMetSerGlnGly 280
 LeuGlnTrpProAlaLeuMetGlnAlaLeuAlaLeuArgProGlyGlyProProValPhe 300
 ArgLeuThrGlyIleGlyProProAlaProAspAsnPheAspTyrLeuHisGluValGly 320
 CysLysLeuAlaHisLeuAlaGluAlaIleHisValGluPheGluTyrArgGlyPheVal 340
 AlaAsnThrLeuAlaAspLeuAspAlaSerMetLeuGluLeuArgProSerGluIleGlu 360
 SerValAlaValAsnSerValPheGluLeuHisLysLeuLeuGlyArgProGlyAlaIle 380
 AspLysValLeuGlyValValAsnGlnIleLysProGluIlePheThrValValGluGln 400
 GluSerAsnHisAsnSerProIlePheLeuAspArgPheThrGluSerLeuHisTyrTyr 420
 SerThrLeuPheAspSerLeuGluGlyValProSerGlyGlnAspLysValMetSerGlu 440
 ValTyrLeuGlyLysGlnIleCysAsnValValAlaCysAspGlyProAspArgValGlu 460
 ArgHisGluThrLeuSerGlnTrpArgAsnArgPheGlySerAlaGlyPheAlaAlaAla 480
 HisIleGlySerAsnAlaPheLysGlnAlaSerMetLeuLeuAlaLeuPheAsnGlyGly 500
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 LeuIleAlaThrSerAlaTrpLysLeuSerThrAsn 532

Fig. 4

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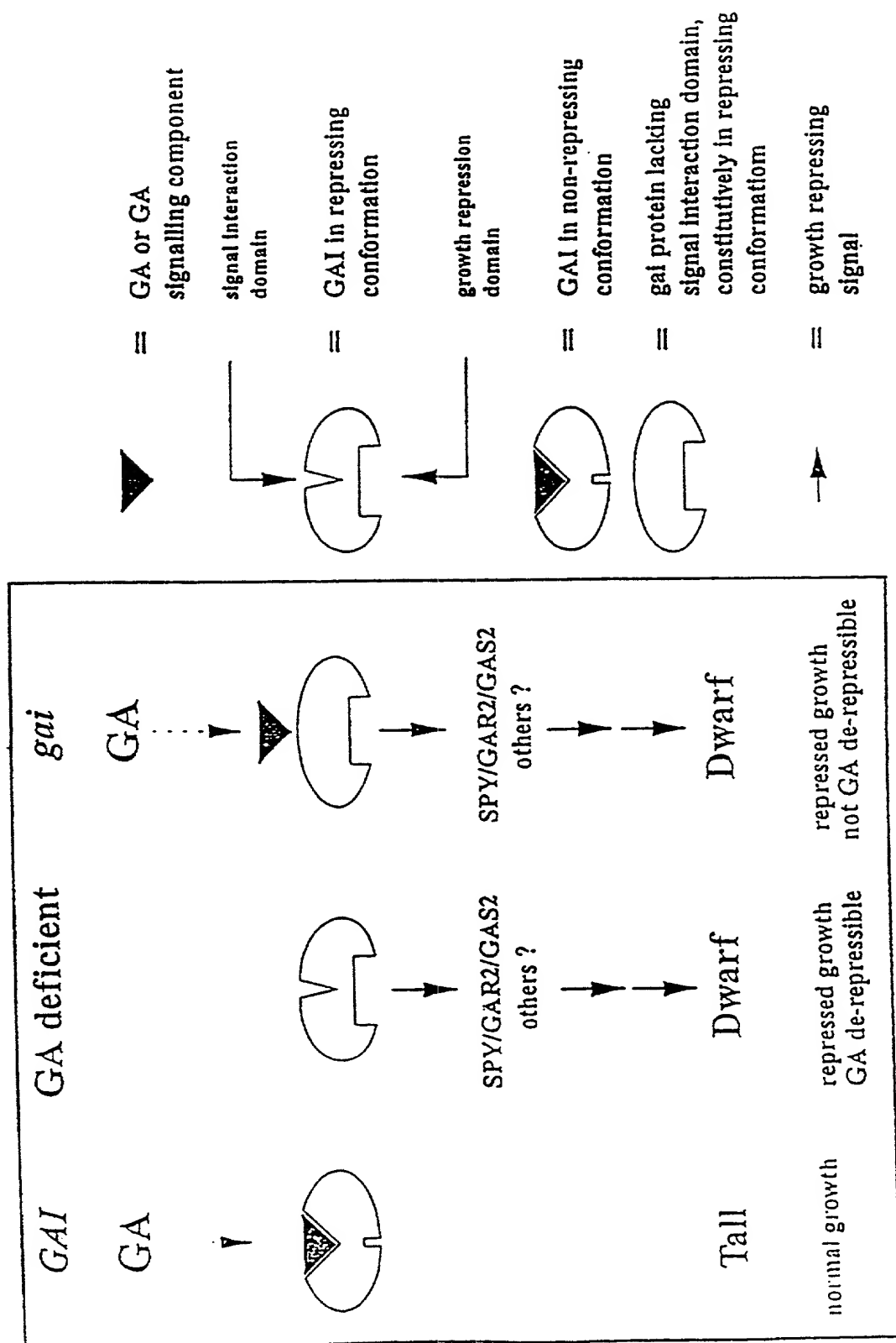


FIG. 5

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Figure 6(a)

1 TAGAAGTGGT AGTGGAGTGA AAAAAACAAAT CCTAAGCAGT CCTAACCGAT
51 CCCCCGAAGCT AAAGATTCTT CACCTTCCCA AATAAAGCAA AACCTAGATC
101 CGACATTGAA GGAAAAACCT TTTAGATCCA TCTCTGABAA AAAACCAACC
151 ATGAAGAGAG ATCATCATCA TCATCATCAA GATAAGAAGA CTATGATGAT
201 GAATGAAGAA GACGACGGTA ACGGCATGGA TGTGCTCAG AAACCTCGAGC
251 AGCTTGAAGT TATGATGTCT AATGTTCAAG AAGACGATCT TTCTCAACTC
301 GCTACTGAGA CTGTTCACTA TAATCCGGCG GAGCTTTACA CGTGGCTTGA
351 TTCTATGCTC ACCGACCTTA ATCCTCCGTC GTCTAACGCC GAGTACGATC
401 TTAAAGCTAT TCCCGGTGAC GCGATTCTCA ATCAGTTCCG TATCGATTCC
451 GCTTCTTCGT CTAACCAAGG CGGCGGAGGA GATACGTATA CTACAAACAA
501 GCGGTTGAAA TGCTCAAACG GCGTCGTGGA AACCACCACA GCGACGGCTG
551 AGTCAACTCG GCATGTTGTC CTGGTTGACT CGCAGGAGAA CGGTGTGCGT
601 CTCGTTACG CGCTTTTGGC TTGCGCTGAA GCTGTTGAGA AGGAGAATCT
651 GACTGTGGCG GAAGCTCTGG TGAAGCAAAT CGGATTCTTA GCTGTTTCTC
701 AAATCGGAGC TATGAGAAAA GTCGCTACTT ACTTCGCCGA AGCTCTCGCG
751 CGGCGGATTT ACCGTCTCTC TCCGTCGCAG AGTCCAATCG ACCACTCTCT
801 CTCCGATACT CTTTAGATGC ACTTCTACGA GACTTGTCCT TATCTCAAGT
851 TCGCTCACTT CACGGCGAAT CAAGCGATTC TCGAAGCTTT TCAAGGGAAG
901 AAAAGAGTTC ATGTCATTGA TTTCTCTATG AGTCAAGGTC TTCAATGGCC
951 GCGGCTTATG CAGGCTCTTG CGCTTCGACC TGGTCTCTCT CTTGTTTTCC
1001 GGTAAACCGG AATGGTCCA CCGGCACCGG ATAATTTGGA TTATCTTCAT
1051 GAAGTTGGGT GTAAGCTGGC TCATTTAGCT GAGGCGATTC ACGTTGAGTT
1101 TGAGTACAGA GGATTTGTGG CTAACACTTT AGCTGATCTT GATGCTTCGA
1151 TGCTTGAGCT TAGACCAAGT GAGATTGAAT CTGTTGCGGT TAACTCTGTT
1201 TTCGAGCTTC ACAAGCTCTT GGGACGACCT GGTGCGATCG ATAAGGTTCT
1251 TGGTGTGGTG AATCAGATTA AACCAGGAGT TTCACTGTC GTTGAGCAGG
1301 AATCGAACCA TAATAGTCCG ATTTCTCTAG ATCGGTTTAC TGAGTCGTTG
1351 CATTATTACT CGACGTTGTT TGACTCGTTG GAAGGTGTAC CGAGTGGTCA
1401 AGACAAGGTC ATGTCGGAGG TTTACTTGGG TAAACAGATC TGCAACGTTG
1451 TGGCTTGTGA TGGACCTGAC CGAGTTGAGC GTCATGAAAC GTTGAGTCAG
1501 TGGAGGAACC GGTTCGGGTC TGCTGGGTTT GCGGCTGCAC ATATTGGTTC
1551 GAATGCGTTT AAGCAAGCGA GTATGCTTTT GGCTCTGTTT AACGGCGGGT
1601 AGGGTTATCG GGTGGAGGAG AGTGACGGCT GTCTCATGTT GCG

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Figure 6(b)

1 MKRDHHEHHQ DKKTMMNNEE DGGNGMDVAQ KLEQLEVMMS NVQEDDLSQL
51 ATETVHYNPA ELYTWLDSML TDLNPPSSNA EYDLKAIPGD AILNQFAIDS
101 ASSSNQGGGG DTYTINKRLK CSNGVVETTT ATAESTRHVV LVDSQENGVR
151 LVHALLACAE AVQKENLTVA EALVKQIGFL AVSQIGAMRK VATYFAEALA
201 RRIYRLSPSQ SPIDHSLSDT L*

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P C T
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0 0 3 9 0

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Figure 6(c)

1 TAGAAGTGGT AGTGGAGTGA AAAAACAAT CCTAAGCAGT CCTAACCGAT
51 CCCCAGAGCT AAAGATTCTT CACCTTCCCA AATAAGCAA AACCTAGATC
101 CGACATTGAA GGAAAAACCT TTTAGATCCA TCTCTGAAAA AAAACCAACC
151 ATGAAGAGAG ATCATCATCA TCATCATCAA GATAAGAAGA CTATGATGAT
201 GAATGAAGAA GACGACGGTA ACGGCATGGA TGTGCTCAG AAACCTCGAGC
251 AGCTTGAAGT TATGATGTCT AATGTTCAAG AAGACGATCT TTCTCAACTC
301 GCTACTGAGA CTGTTCACTA TAATCCGGCG GAGCTTACA CGTGGCTTGA
351 TTCTATGCTC ACCGACCTTA ATCTCCGTC GTCTAACGCC GAGTACGATC
401 TTAAAGCTAT TCCCGGTGAC GCGATTCTCA ATCAGTTCCG TATCGATTCC
451 GCTTCTTCGT CTAACCAAGG CGGCGGAGGA GATACGTATA CTACAAACAA
501 GCGGTTGAAA TGCTCAAACG GCGTCGTGGA AACCACCACA GCGACGGCTG
551 AGTCAACTCG GCATGTTGTC CTGGTTGACT CGCAGGAGAA CGGTGTGCGT
601 CTCGTTACG CGCTTTTGGC TTGCGCTGAA GCTGTTGAGA AGGAGAATCT
651 GACTGTGGCG GAAGCTCTGG TGAAGCAAAT CGGATTCTTA GCTGTTTCTC
701 AAATCGGAGC TATGAGAAAA GTCGCTACTT ACTTCGCCGA AGCTCTCGCG
751 CGGCGGATTT ACCGCTCTC TCCGTCGAG AGTCCAATCG ACCACTCTCT
801 CTCCGATACT CTTCAGATGC ACTTCTACGA GACTTGTCCT TATCTCAAGT
851 TCGCTCACTT CACGGCGAAT CAAGCGATTG TCGAAGCTTT TCAAGGGAAG
901 AAAAGAGTTC ATGTCAATGA TTCTCTATGA GTCAAGGTCT TCAATGGCCG
951 GCGCTTATGC AGGCTCTTGC GCTTCGACCT GGTGGTCCTC CTGTTTCCG
1001 GTTAACCGGA ATTGGTCCAC CGGCACCGGA TAATTTGAT TATCTTCATG
1051 AAGTTGGGTG TAAGCTGGCT CATTAGCTG AGGCGATTCA CGTTGAGTTT
1101 GAGTACAGAG GATTTGTGGC TAACACTTTA GCTGATCTTG ATGCTTCGAT
1151 GCTTGAGCTT AGACCAAGTG AGATTGAATC TGTTCGGTT AACTCTGTTT
1201 TCGAGCTTCA CAAGCTCTTG GGACGACCTG GTGCGATCGA TAAGGTTCTT
1251 GCTGTGGTGA ATCAGATTAA ACCGGAGATT TCACTGTGG TTGAGCAGGA
1301 ATCGAACCAT AATAGTCCGA TTTTCTTAGA TCGGTTTACT GAGTCGTTGC
1351 ATTATTACTC GACGTTGTTT GACTCGTTGC AAGGTGTACC GAGTGGTCAA
1401 GACAAGGTCA TGTGCGAGGT TTAATTGGGT AACAGATCT GCAACGTTGT
1451 GGCTTGATGAT GGACCTGACC GAGTTGAGCG TCATGAAACG TTGAGTCACT
1501 GGAGGAACCG GTTCGGGTCT GCTGGGTTTG CGGCTGCACA TATTGGTTTG
1551 AATGCGTTTA AGCAAGCGAG TATGCTTTTG GCTCTGTTCA ACGGCGGTGA
1601 GCGTTATCGG GTGGAGGAGA GTGACGGCTG TCTCATGTTG GG

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Figure 6(d)

1 MKRDHRRHQ DKRTMMNNEE DDGNGMDVAQ KLEQLEVMMS NVQEDDLSQL
51. ATETVRYNPA ELYTWLDSML TDLNPPSSNA EYDLKAIPGD AILNQFAIDS
101 ASSSNQGGGG DTYTINKRLK CSNGVVETTT ATAESTRHVV LVDSQENGVR
151 LVEHALLACAE AVQENLTVA EALVKQIGFL AVSQIGAMRK VATYFAEALA
201 RRIYRLSPSQ SPIDHSLSDT LQMHFYETCP YLKFAHFTAN QAILEAFQK
251 KRVEVIDSL*

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Figure 6(e)

1 TAGAAGTGGT AGTGGAGTGA AAAAACAAT CCTAAGCAGT CCTAACCGAT
51 CCCCGAAGCT AAAGATTCTT CACCTTCCCA AATAAGCAA AACCTAGATC
101 CGACATTGAA GGAAAAACCT TTTAGATCCA TCTCTGAAA AAAACCAACC
151 ATGAAGAGAG ATCATCATCA TCATCATCAA GATAAGAAGA CTATGATGAT
201 GAATGAAGAA GACGACGGTA ACGGCATGGA TGTGCTCAG AAACCTGAGC
251 AGCTTGAAGT TATGATGTCT AATGTTCAAG AAGACGATCT TTCTCAACTC
301 GCTACTGAGA CTGTTCACTA TAATCCGGCG GAGCTTTACA CGTGGCTTGA
351 TTCTATGCTC ACCGACCTTA ATCCTCCGTC GTCTAACGCC GAGTACGATC
401 TTAAAGCTAT TCCCGGTGAC GCGATTCTCA ATCAGTTCGC TATCGATTCC
451 GCTTCTTCGT CTAACCAAGG CGGCGGAGGA GATACGTATA CTACAAACAA
501 GCGGTTGAAA TGCTCAAACG GCGTCGTGGA AACCACCACA GCGACGGCTG
551 AGTCAACTCG GCATGTTGTC CTGGTTGACT CGCAGGAGAA CGGTGTGCGT
601 CTCGTTACAG CGCTTTTGGC TTGCGCTGAA GCTGTTTACA AGGAGAATCT
651 GACTGTGGCG GAAGCTCTGG TGAAGCAAAT CGGATTCTTA GCTGTTTCTC
701 AAATCGGAGC TATGAGAAA GTCGCTACTT ACTTCGCCGA AGCTCTCGCG
751 CGGCGGATTT ACCGTCTCTC TCCGTCCGAG AGTCCAATCG ACCACTCTCT
801 CTCCGATACT CTTGAGATGC ACTTCTACGA GACTTGTCCT TATCTCAAGT
851 TCGCTCACTT CACGGCGAAT CAAGCGATTC TCGAAGCTTT TCAAGGGAAG
901 AAAAGAGTTC ATGTCATTGA TTTCTCTATG AGTCAAGGTC TTGGGCGCTT
951 ATGCAGGCTC TTGCGCTTCG ACCTGGTGGT CCTCCTGTTT TCCGGTTAAC
1001 CGGAATTGGT CCACCGGCAC CGGATAATTT CGATTATCTT CATGAAGTTG
1051 GGTGTAAGCT GGCTCATTTA GCTGAGGCGA TTCACGTTGA GTTTGAGTAC
1101 AGAGGATTTG TGGCTAACAC TTTAGCTGAT CTTGATGCTT CGATGCTTGA
1151 GCTTAGACCA AGTGAGATTG AATCTGTTGC GGTAACTCT GTTTTCGAGC
1201 TTCACAAGCT CTTGGGACGA CCGGTCCGA TCGATAAGGT TCTTGGTGTG
1251 GTGAATCAGA TTAAACCGGA GATTTTCACT GTGGTTGAGC AGGAATCGAA
1301 CCATAATAGT CCGATTTTCT TAGATCGGTT TACTGAGTCG TGCATTATT
1351 ACTCGACGTT GTTTGACTCG TTGGAAGGTG TACCGAGTGG TCAAGACAAG
1401 GTCATGTCGG AGGTTTACTT GGGTAAACAG ATCTGCAACG TTGTGGCTTG
1451 TGATGGACCT GACCGAGTTG AGCGTCATGA AACGTTGAGT CAGTGGAGGA
1501 ACCGGTTCGG GTCTGCTGGG TTGCGGCTG CACATATTGG TTGAATCGG
1551 TTTAAGCAAG CGAGTATGCT TTTGGCTCTG TTCAACGGCG GTGAGGGTTA
1601 TCGGCTGGAG GAGAGTGACG GCTGTCTCAT GTTGGG

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Figure 6(f)

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1  MKRDHHHHHQ DKKITMMNIEE DDGNGMDVAQ KLEQLEVMMS NVQEDDLSQL
51  ATETVHYNPA ELYTWLDSML TDLNPPSSNA EYDLKAIPGD AILNQFAIDS
101 ASSSNQGGGG DTYTTNRRLK CSNGVVETTT ATAESTREVV LVDSQENGVR
151 LVHALLACAE AVQKENLTV EALVKQIGFL AVSQIGAMRK VATYFAEALA
201 RRIYRLSPSQ SPIDHSLSDT LQMHFYETCP YLKFAHFTAN QAILEAFQCK
251 KRKHVIDFSM SQGLGRLCRL LRFDLVVILF SG*

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Figure 6(g)

1 TAGAAGTGGT AGTGGAGTGA AAAACAAAT CCTAAGCAGT CCTAACCGAT
 51 CCCCCGAAGCT AAAGATTCTT CACCTTCCCA AATAAAGCAA AACCTAGATC
 101 CGACATTGAA GGAAAAACCT TTETAGATCCA TCTCTGAAAA AAAACCAACC
 151 ATGAAGAGAG ATCATCATCA TCATCATCAA GATAAGAAGA CTATGATGAT
 201 GAATGAAGAA GACGACGGTA ACGGCATGGA TGTGCTCAG AACTCGAGC
 251 AGCTTGAAGT TATGATGTCT AATGTTCAAG AAGACGATCT TTCTCAACTC
 301 GCTACTGAGA CTGTTCACTA TAATCCGGCG GAGCTTTACA CGTGGCTTGA
 351 TTCTATGCTC ACCGACCTTA ATCCTCCGTC GTCTAACGCC GAGTACGATC
 401 TTAAAGCTAT TCCCGGTGAC GCGATTCTCA ATCAGTTCGC TATCGATTGG
 451 GCTTCTTCGT CTAACCAAGG CGGCGGAGGA GATACGTATA CTACAAACAA
 501 GCGGTTGAAA TGCTCAAACG GCGTCGTGGA AACCACCACA GCGACGGCTG
 551 AGTCAACTCG GCATGTGTCC TGGTTGACTC GCAGGAGAAC GGTGTGCGTC
 601 TCGTTCACGC GCTTTTGGCT TCGCTGAAG CTGTTCAGAA GGAGAATCTG
 651 ACTGTGGCGG AAGCTCTGGT GAAGCAAATC GGATTCTTAG CTGTTTCTCA
 701 AATCGGAGCT ATGAGAAAAG TCGCTACTTA CTTGCGCGAA GCTCTCGCGC
 751 GGCGGATTTA CCGTCTCTCT CCGTCGCAGA GTCCAATCGA CCACTCTCTC
 801 TCCGATACTC TTCAGATGCA CTTCTACGAG ACTTGTCTTT ATCTCAAGTT
 851 CGCTCACTTC ACGGCGAATC AAGCGATTCT CGAAGCTTTT CAAGGGAAGA
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 1051 AAGTTGGGTG TAAGCTGGCT CATTTAGCTG AGGCGATTCA CGTTGAGTTT
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 1151 GCTTGAGCTT AGACCAAGTG AGATTGAATC TGTGCGGTT AACTCTGTTT
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 1251 GGTGTGGTGA ATCAGATTAA ACCGGAGATT TCACTGTGG TTGAGCAGGA
 1301 ATCGAACCAT AATAGTCCGA TTTCTTAGA TCGGTTTACT GAGTCGTTGC
 1351 ATTATTACTC GACGTTGTTT GACTCGTTGG AAGGTGTACC GAGTGGTCAA
 1401 GACAAGGTCA TGTGCGAGGT TTACTTGGGT AAACAGATCT GCAACGTTGT
 1451 GGCTTGTGAT GGACCTGACC GAGTTGAGCG TCATGAAACG TTGAGTCAGT
 1501 GGAGGAACCG GTTCGGGTCT GCTGGGTTTG CGGCTGCACA TATTGGTTCTG
 1551 AATGCGTTTA AGCAAGCGAG TATGCTTTTG GCTCTGTTCA ACGGCGGTGA
 1601 GCGTTATCGG GTGGAGGAGA GTGACGGCTG TCTCATGTTG GG

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Figure 6(h)

1 MKRDHHHHHQ DKKTTMMNEE DDGNGMDVAQ KLEQLVEMMS NVQEDDLSQL
51 ATETVHYNPA ELYTWLDSML TDLNPPSSNA EYDLKAIPGD AILNQFAIDS
101 ASSSNQGGGG DTYTINKRLK CSNGVVEITT ATAESTRHVS WLTRRRRTVCV
151 SFTRFWLALK LFRRI*

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